

SONY

HDVS

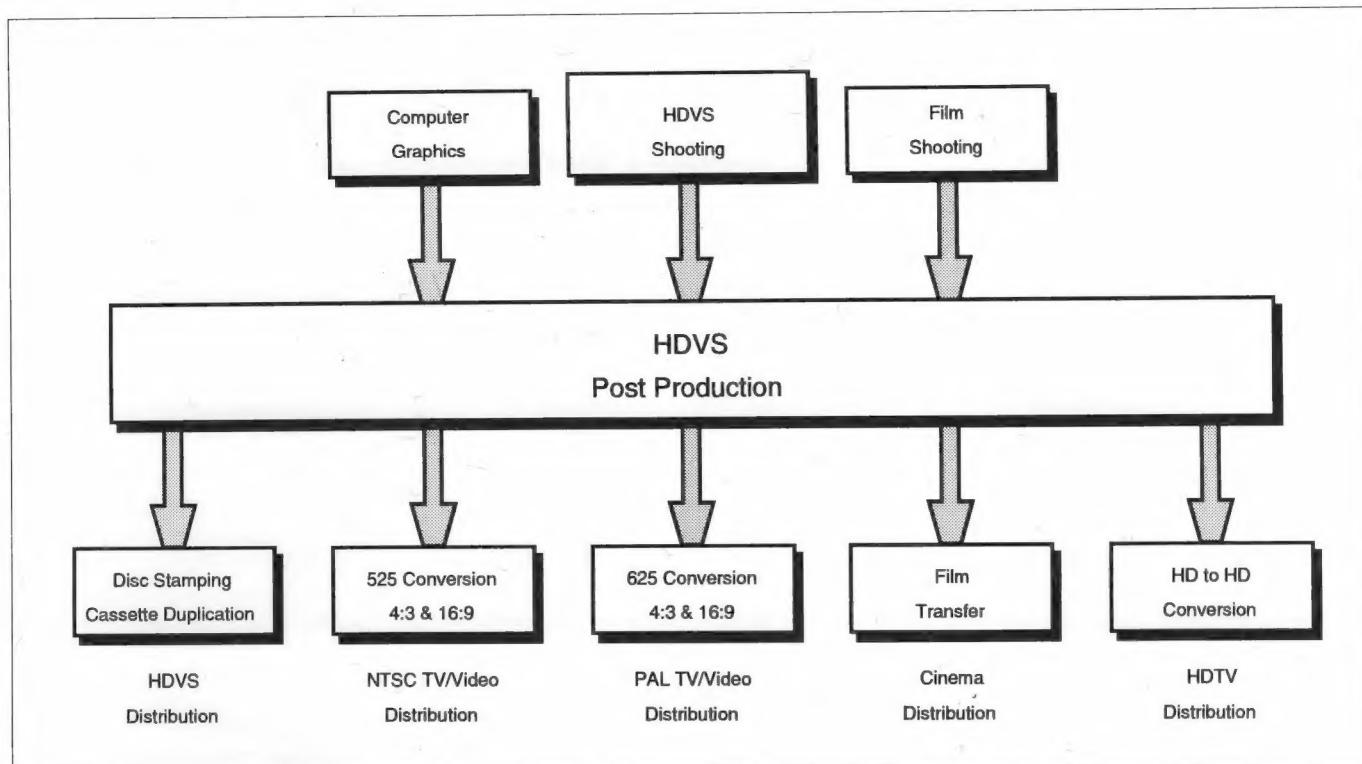
High Definition Video System

1125/60 to 625/50 Down-conversion

Direct down-conversion of 1125/60 signals to the 625/50 standard is an important new service provided by the Sony High Definition Facility, Europe (SHDFE). SHDFE provides post production and media conversion services for users of Sony HDVS equipment.

The introduction of this conversion technology is a powerful addition to the wide range of HDVS equipment that is available for programme production. It emphasises even further the complete confidence that producers have in using HDVS as a reliable, flexible, medium for a wide variety of productions.





The Sony 1125/60 to 625/50 down-converter is an important element in the HDVS production chain. It firmly establishes HDVS as the top end format for television applications and its widescreen output makes it ready for the newly emerging TV transmission systems such as PALplus and D2-MAC.

Motion Compensated Frame Rate Conversion

The outstanding picture quality of the down-converter is achieved through sophisticated motion compensation interpolation algorithms based on the Block Matching method. This provides frame rate conversion from the 30fps of HDVS to the 25fps of PAL video, without any noticeable motion artefacts.

Aspect Ratio Conversion

The creative side of aspect ratio conversion from the rectangular 16:9 ratio of HDVS to the squarer 4:3 ratio of regular video has been addressed with a number of aspect ratio conversion modes.

In addition to traditional 'Letter Box' and 'Edge Crop', there is also a 'Variable Zoom' mode which, when combined with horizontal and vertical repositioning, can provide an effective 'Pan-and-Scan' mode.

The down-converter is also capable of providing a video output suitable for widescreen TV transmission.

Editing Capability

The versatile control software includes editing capabilities allowing an HDVS player and a 625-line recorder to be controlled as an edit pair. This feature, combined with the edit list management capability, is particularly relevant in creating the most suitable version for television presentation from an HDVS master.

Available Services

Two 1125/60 to 625/50 down-converters are available through SHDFE. One is based in the facility to provide an in-house service, the second is available for field use to provide a high quality 625-line PAL feed for the live transmission of prestigious European events covered in HDVS.

The Sony HDVS to 625-line and PAL down-converter sets the standard of excellence in transferring HDVS programmes to current video formats and provides picture quality that is difficult to match by any other means.

Down-conversion specifications

Signal Inputs	
Input standard:	1125/60 (SMPTE 240M)
Analogue input:	G/Y, B/Pb, R/Pr
Digital input:	D-sub 50-pin
Signal Outputs	
Output standard:	625/50 (CCIR Rec. 601)
Component analogue standard:	G/Y, B/Cb, R/Cr
Digital outputs:	Parallel and serial
Composite outputs:	PAL analogue, D-2 digital
Aspect ratio:	4:3
Aspect ratio modes:	Letter box Edge crop Variable zoom Squeeze (16:9)
Motion vector range	
Horizontal:	± 24 pixels
Vertical:	± 16 pixels
Processing delay:	470ms
General	
Power requirements:	AC 100-120/220-240V 50/60Hz
Power consumption:	2800W
Weight:	Approx 300kg
Dimensions:	Three units, each 482(W)x650(H)x630(D)mm

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